CONTENTS VOLUME 188

B.M. Smirnov. The properties of fractal clusters — No. 1, p. 1

E. Oset, L.L. Salcedo and R. Brockmann. Decay modes of sigma and lambda hypernuclei — No. 2, p. 79

G. Morandi, C. Ferrario, G. Lo Vecchio, G. Marmo and C. Rubano. The inverse problem in the calculus of variations and the geometry of the tangent bundle — Nos. 3 & 4, p. 147

T. Padmanabhan. Statistical mechanics of gravitating systems — No. 5, p. 285

W. Cassing, V. Metag, U. Mosel and K. Niita. Production of energetic particles in heavy-ion collisions — No. 6, p. 363

CONTENTS VOLUMES 181–187

P. Schlottmann. Some exact results for dilute mixed-valent and heavy-fermion systems — 181, Nos. 1 & 2, p. 1

A.V. Bogdanov, G.V. Dubrovskii, Yu.E. Gorbachev and V.M. Strelchenya. Theory of vibrational and rotational excitation of polyatomic molecules — 181, No. 3, p. 121

D.O. Riska. Exchange currents — 181, No. 4, p. 207

W.B. Bonnor, A.K.G. de Oliveira and N.O. Santos. Radiating spherical collapse — 181, No. 5, p. 269

Yu.G. Gurevich and O.L. Mashkevich. The electron–phonon drag and transport phenomena in semiconductors — 181, No. 6, p. 327

R.D. Ball. Chiral gauge theory — 182, Nos. 1 & 2, p. 1

G.G. Pavlov, Yu.A. Shibanov and P. Mészáros. Comptonization in strongly magnetized and nonmagnetized plasmas — 182, No. 3, p. 187

S.O. Gladkov. The kinetics of nuclear magnetically ordered systems — 182, Nos. 4 & 5, p. 211

A. Giazotto. Interferometric detection of gravitational waves — 182, No. 6, p. 365

F.V. Kusmartsev. Application of catastrophe theory to molecules and solitons — 183, No. 1, p. 1

H. Friedrich and D. Wintgen. The hydrogen atom in a uniform magnetic field – an example of chaos — 183, No. 2, p. 37

H.-T. Elze and U. Heinz. Quark–gluon transport theory — 183, No. 3, p. 81

S.M. Wagh and N. Dadhich. The energetics of black holes in electromagnetic fields by the Penrose process — 183, No. 4, p. 137

J.L. Hewett and T.G. Rizzo. Low-energy phenomenology of superstring-inspired E_6 models — 183, Nos. 5 & 6, p. 193

C.B. Dover, D.J. Millener and A. Gal. On the production and spectroscopy of Σ hypernuclei — 184, No. 1, p. 1

C. Itzykson, S. Kirkpatrick, G. Parisi, N. Sourlas and M.A. Virasoro, eds. Common trends in statistical physics and field theory, Proc. Cargèse Advanced Research Workshop — 184, Nos. 2–4, p. 99

A.S. Mikhailov. Selected topics in fluctuational kinetics of reactions — 184, Nos. 5 & 6, p. 307

L. Lusanna. An enlarged phase space for finite-dimensional constrained systems, unifying their Lagrangian phase- and velocity-space descriptions — 185, No. 1, p. 1

A.N. Klucharev and V. Vujnović. Chemi-ionization in thermal-energy binary collisions of optically excited atoms — 185, No. 2, p. 55

P.J. Mulders. Modifications of nucleons in nuclei and other consequences of the quark substructure — 185, No. 3, p. 83

M.M. Nesterov and N.A. Tarasov. Semiclassical approach to the description of nuclear reactions with fast particles — 185, No. 4, p. 171

H.Z. Cummins. Experimental studies of structurally incommensurate crystal phases — 185, Nos. 5 & 6, p. 211

S.V. Bulanov, L.M. Kovrizhnykh and A.S. Sakharov. Regular mechanisms of electron and ion acceleration in the interaction of strong electromagnetic waves with a plasma — 186, No. 1, p. 1

J. Maalampi and M. Roos. Physics of mirror fermions — 186, No. 2, p. 53

L.G. Genkin and L.M. Erukhimov. Interplanetary plasma irregularities and ion acoustic turbulence 186, No. 3, p. 97
A. Niehaus. Spontaneous electron emission from slow atomic collisions 186, No. 4, p. 149
J.B.A. Mitchell. The dissociative recombination of molecular ions 186, No. 5, p. 215
A. Chatterjee. Large-N expansions in quantum mechanics, atomic physics and some $O(N)$ invariant systems 186, No. 6, p. 249
A. Ohsaki and H. Nakamura. Hyperspherical coordinate approach to atom–diatom chemical reactions in the sudden and adiabatic approximations 187, No. 1, p. 1
A. Kumar. Soliton dynamics in a monomode optical fibre 187, No. 2, p. 63
L. Vepstas and A.D. Jackson. Justifying the chiral bag 187, No. 3, p. 109
V.M. Dubovik and V.V. Tugushev. Toroid moments in electrodynamics and solid-state physics 187, No. 4, p. 145
P.F. Smith and J.D. Lewin. Dark matter detection 187, No. 5, p. 203
D. David, D.D. Holm and M.V. Tratnik. Hamiltonian chaos in nonlinear optical polarization dynamics 187, No. 6, p. 281